QC ABSTRACT

NAME OF WORK: Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	4 set /31-50 cum	31.31	8	8
6	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-03-03-06** **Date: 12-10-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-10-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-10-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.63	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.4	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	140 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-03-03-06** **Date: 07-11-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-10-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	10-10-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-03-06** **Date: 13-10-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-10-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-10-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	589	589	3.9	96.1	90-100
3	20 mm	4898	5487	36.6	63.4	30-70
4	10 mm	7143	12630	84.2	15.8	10-35
5	4.75 mm	2118	14748	98.3	1.7	0-5
6	Pan	252	15000	100.0	0	---

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-03-03-06** **Date: 13-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.4	
3	Specific Gravity	2.67	_
4	Bulk Density(Loose) (Kg/l)	1.42	_
5	Bulk Density(Compacted) (Kg/l)	1.47	_
6	Water Absorption(%)	0.38	_

* The results obtained are satisfactory as per standard requirements.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-03-06** **Date: 12-10-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-10-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-10-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	198	198	4.0	96.0	90-100
3	10 mm	3150	3348	67.0	33.0	25-55
4	4.75 mm	1457	4805	96.1	3.9	0-10
5	Pan	195	5000	100	0	–

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-03-03-06** **Date: 12-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.2	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.44	_
5	Bulk Density(Compacted) (Kg/l)	1.5	_
6	Water Absorption(%)	0.27	_
7	Aggregate crushing Value(%)	22.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

End of Report

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 12-10-20

Lab ID	:	**CP-2021-03-03-06**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-10-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	10-10-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-03-03-06** **Date: 12-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/11/2020

Lab ID	:	**CP-2021-03-03-06**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-20
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	151.89 X 149.68 X 151.89	22735	**8.256**	591.0	26.0	25.6
2	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	151.06 X 150.99 X 151.26	22808	**8.925**	593.3	26.0	
3	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	149.15 X 150.81 X 150.96	22493	**8.585**	558.7	24.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-03-06** **Date: 24/11/2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-20
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	150.56 X 150.64 X 151.48	22680	8.562	759.3	33.5	33.1
2	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	150.00 X 151.52 X 150.87	22728	8.439	738.2	32.5	
3	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	150.70 X 149.49 X 151.57	22528	8.582	752.2	33.4	

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Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-03-06** **Date: 03/11/2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-20
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	151.12 X 150.79 X 151.31	22788	8.256	574.7	25.2	25.5
2	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	150.36 X 151.64 X 149.72	22801	8.925	614.6	27.0	
3	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	151.99 X 151.63 X 151.02	23046	8.585	558.1	24.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-03-06** **Date: 24/11/2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-20
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	149.11 X 149.08 X 151.17	22230	8.562	747.8	33.6	33.3
2	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	149.75 X 149.72 X 151.54	22420	8.439	724.1	32.3	
3	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	149.76 X 151.21 X 149.20	22645	8.582	768.3	33.9	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 03/11/2020

Lab ID	:	**CP-2021-03-03-06**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-20
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	03/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	149.98 X 150.71 X 149.28	22602	**8.256**	565.6	25.0	25.2
2	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	151.09 X 151.63 X 150.91	22910	**8.925**	605.8	26.4	
3	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	149.86 X 151.14 X 151.51	22649	**8.585**	549.9	24.3	

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R RUDRAPRASAD
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Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-03-06 **Date: 24/11/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.

Agency : Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086

Customer's Reference : BBMP/EE/BTP/WO/147/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-10-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	150.94 X 150.54 X 151.24	22722	8.562	751.7	33.1	33.1
2	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	150.59 X 151.49 X 149.43	22811	8.439	748.6	32.8	
3	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	151.53 X 150.59 X 151.33	22818	8.582	763.9	33.5	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-03-03-06** **Date: 03/11/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.

Agency : Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086

Customer's Reference : BBMP/EE/BTP/WO/147/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-10-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	151.00 X 151.77 X 151.69	22917	8.256	590.8	25.8	25.7
2	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	149.75 X 151.46 X 150.78	22681	8.925	599.8	26.4	
3	Cement Concrete Pavement	M30	27/10/2020	03/11/2020	150.52 X 150.21 X 150.64	22609	8.585	559.3	24.7	

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Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 24/11/2020

Lab ID	:	**CP-2021-03-03-06**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer's Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-10-20
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	151.71 X 151.63 X 149.37	23005	8.562	769.2	33.4	33.1
2	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	150.77 X 149.48 X 150.37	22536	8.439	741.3	32.9	
3	Cement Concrete Pavement	M30	27/10/2020	24/11/2020	151.97 X 149.80 X 149.91	22764	8.582	753.4	33.1	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

****End of Report****

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M : 9972924526 | Tel : +91-80-23444807 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	**CP-2021-03-03-06** **Date: 04-11-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Package-2, Includes 5 Works. 1) improvements of Roads and Drain in Kodigehalli Village in Ward no 08 Kodigehalli 2) Providing Borewell and Pipeline Work in Kodigehalli in Ward No.08 Kodigehalli. 3) Improvements of Roads and Drains in Kodigehalli and Surrounding in Ward no 08 Kodigehalli 4) Maintenance Works to Ward Office wardNo 08. 5) drilling of Borewell and Providing Pipeline at Kodigehalli in Ward No.08.
Agency	:	Sri N Venkata Reddy, #92, 17th Main Road, 4th Cross, J.C. Nagara, Mahalakshmipuram (P), bangalore-560086
Customer Reference	:	BBMP/EE/BTP/WO/147/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-10-20
Sample Type/ Size	:	Precast concrete blocks for paving
Reference to BIS codes	:	IS 15658:2006
Date of test	:	30-10-20

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	60.99	32.5	33.1
2	198.48	159.64	60.25	33.8	
3	199.54	159.54	60.48	32.5	
4	197.68	159.22	60.55	33.5	
5	198.11	159.87	60.32	32.8	
6	198.18	160.02	60.11	33.4	
7	198.45	158.99	60.98	33.2	
8	197.22	159.22	60.12	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	60.85	3.29	3.64
2	4.898	4.721	60.22	3.75	
3	4.988	4.802	60.44	3.87	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

Page 1/1
End of Report

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore